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Communications.

MINERALS.

EDITORS TIMES:

For the benefit of mineral hunt ters I will say the minerals of this country are not distributed over this country irregularly. There is a system in these distributions, the knowledge of which furnishes us with a rule by which we decide whether a particular kind of mineral may be expected to be found decreasing with the depth. in a certain locality. The signs by which we judge whether a particu- layers. lar mineral is present at the place in question are the general characteristics of the rock in that locality.

The knowledge of the relations of particular minerals to the general character of rocks constitutes the science or Geology and the its appearance on the surface or by things are studied. Thus people knowledge of the character of minerals that of Mineralogy.

The history of the formation of rocks has been divided into certain periods.

The Granite, or primitive, is the oldest or first formation, and diverse from all straifications in this in the future, and I predict more rounding objects, the world and its rock, we may expect to find the ores of tin' iron, copper, lead, cobalt, vast extent of that State in almost ceasing subjects of observation and silver and anthracite coal. We also find feld spar quartz in beautiful crystals, plumbago garnetts, heavy spar, calcareous spar and flour spar, tain, and the abrasion of rock fur- these with more or less care and and other matter but foreign to the

Metamorphic rock is the second in age. To this belong a variety of minerals. Gneiss, mica, slate, clay- are left undeveloped; there are no slate, limestone and other minerals in rocks covering tracts of great extent and at a great depth. The from below belong the pyriteous rock of this class is characterized by a partial stratification, but does in these veins have been raised and lecture on Political Economy, that not exactly belong either to the compact granite or to the stratified variety.

white quarts running through the aids the road will be extended to mounds which indicates silver and Murphy, Ducktown and Chattanoolead and gold. But iron predomi- ga, and we are left out in the cold. nates on panther creek, rabbit creek, the Hannah mountains, and on the Ditny mountain and Smokey mountain large bodies of iron are deposited and many other beautiful specimens of various minerals.

STRATIFIED ROCK. The rock of this period is the coal bearing rock-par excellence. We find here the richest and most extensive layers of mineral coal, all of the bituminous kind-a soft coal. In this formation we are to look for soft mineral coal, iron ore, limestone and salt. It contains none of the precious metals-no lead, no copper, no gold or silver nor any metal except iron and manganese, latter not available.

Tertiary formation is a stratified rock, but of a later period than the possessor to transact the usual busi- tion is more favorable to avoid this

mals and plants, it containing no years of maturity. fer to the science of Geology, and cess of study and acquisition. for a description of the minerals to Mineralogy.

The origin of minerals and their forms as veins or layers may be to the surface to which class the poses. iron deposits in Blount County, aside from the mountains, belong other minerals of mountain origin are injected from below, raised by the power of internal heat to which class belong the gold and silver ores of North Carolina and the copper of Ducktown belong.

The first class consists of wedges

The second of spheroidal masses

with the depth. The first class of veins is the

The third of wedges increasing

most deceptive and cannot be depended upon.

sinking shafts into it.

luvial deposits are exhausted work cation and habit. is generally abandoned and the rich deposits in veins in the mountains gold veins where alluvial deposits occur. To the injected veins of gold veins also ferruginous veins. Gold

as a fact that all native sulphurets ject, I am afraid that the great ma-Metamorphic rock often assumes particularly all the sulphurets of jority of the people are as ignorant the appearance of granite puding iron contain gold, it does not follow as myself; and, also, I believe they stone and is particularly distin- from this that all pyrites contain could not, with any certainty, comguished by its close grain and sufficient to pay for its extraction, mend me if I she strength from granite transition as sulphurets cannot possibly peneright or criticise me if I should rock in this rock which is the most trate any rock but from below, we guide them wrong. However, I extensive in the United States. may naturally conclude that the will say something, as I usually do, FROM CINCINNATTI OR We may expect to find gold in S. heaviest body of such kind of ore and if my talk don't satisfy the Carolina and other southern states. necessarily lie deep in the earth public I will let some other philoso-We also find silver in this rock, also gold gold and the platinum met-bly found to improve in quality and A few days ago als together and Iron of the best quantity with the depth. The gold thought I would ride out into the quality. In it we find zinc, anti- of North Carolina is of the pyrimony, arsenic, nickel, cobalt, tin, tous origin in composition with sulmangansse. It is the home of the phurets. We have a belt of gold metallic sulpheretts. The rock in ores of unparalled extent, immense what is known as the flat of the width and undoubtedly reaching merchants to buy goods, or to pay mountain some four miles from down to the primitive formation, for what I have already bought,) Montvale Springs, Blount County, which, on an average, cannot be is of this character, and from this less than 2000 feet deep. Here is a flat on the south side of Chilhowee mass of precious metal enclosed in Mountain, to the Tennessee river, the rock which cannot be exhausted the indications of silver are percept- for ages to come, and in this reible; also the sulpherette variety spect the gold regions of North near Samuel McMurray's on the Carolina are the most important of river. Strong indications are met all the known gold deposits of the with at another point near the world, California not excepted. Bright saw-mill. At the foot of Also near the gold region is found the mountain out-cropping of silver extensive mica mines which are at can be seen and acrost the moun- present being worked at a handtain south of Montvale Mr. Engle some profit. Cotton rock in abundhas been digging and found beau- ance, iron of the finest quality and tiful specimens of sulpherette of copper ore in Jackson county; a silver. From my own observations mountain of roofing slate near the the body of this mineral must lie line of Tennessee on Tennessee deep in the earth and will require river, and great forests of the finest considerable capital to develop it. quality of timber. Here in these Again, some twelve miles from mountains lie inexhaustible treas-Montvale, near what is known as ures to be developed by intelligent the Deadrick cabin several mounds man, and will Knoxville, our peoin a straight line from the cabin in ple, still refuse to complete the railthe direction of the Tennessee Riv- road from Maryville to the State er can be seen. These mounds line, and let these immense treasseem to have been raised or injected ures be lost her forever. The Air from below by the power of inter- Line road, North Carolina, is comnal heat. They are composed of pleted to the mouth of Tuckysiege red hematite with veins of solid river, and unless East Tennessee

Education.

SAM. J. GRIFFITTS.

The object of common school edu- if we can give employment to the cation is ordinarily supposed to be idle it will be all right, whether we simply the acquisition of knowl- take into consideration what that arithmetic, geography and English and whatever trade a man follows Being a salaried Agent, I grammar. These are the simple he wants the people to patronize elements which most children ac- him. I think with money we can quire in various degrees of fullness hire men to do almost anything, and | charge and accuracy. They are generally while we are bragging on our wealth JOHN D. POTTS, Traveling Pass. ditional to pay postage. considered sufficient to fix men and as a nation, poor people and paupers Agent, KNOXVILLE, Tenn. women for the common responsi- are increasing too fast, because bilities of life. These enables the our condition at this time as a na-

preceding rock above named' and ness of the world, and every sane than it will be twenty or fifty years may be distinguished from it by child should be required to under- hence. You see for the last fifty shells and fossil remains of ani- stand them before they enter the years, as the older states beame

whole mental nature, and gives it favorable circumstances, what is to faculty of applying itself and its va- become of us under conditions just considered the result of infiltration rious faculties for manifold pur- the reverse, which is almost inevi-

The new energy given to the perof education shall have ceased, even During all this time she has enjoythough the lessons may have been ed the same advantage that we abroad, men and women, their pursuits of happiness, find ceaseless as well as profit in their exercise.

ulty is also quickened, and the na- said, he felt about as helpless as The second may be measured by ture, relations and purposes of cat in hell without claws. become unconscious philosophers think it would be appropriate to The third class may be depended in their several ways with various quote a phophesy from "The Fool," upon as improving with the depth. depths of insight into the character in King Lear, of Shakespeare's There are gold bearing localities of the matter that comes before Works: in North Carolina, which, if not them. Life is a perpetual opportuequal to those of California at pres- nity for study presented to our atent, will be of greater importance tention. The earth and all sursure and lasting. Throughout a circumstances are or may be unevery branch and along all the reflection. People and animals and courses can be found wash gold, it their conditions are ever offered for comes from the sides of the moun- our thought. The mind perceives nishes the metal and when the al- accuracy just according to its edu-

[to be continued.]

Political Economy. MARYVILLE, Dec. 27, 1884.

EDITORS TIMES.

In my last letter I said I would condensed along with other metals is if I know what that means. Conand sulphurets; it may be asserted cerning this knotty complex suband tour

> city to loaf and to talk politics, (here of late I cannot do this as pleasantly as I would like, for I am and as soon as I came out into the big road I overtook a man and team "stalled" with a load of wood, his horses, (or teaching them what idle men by the roadside and boys of wealthy families who had been out rabbit and bird hunting who had come out of the neighboring fields more, it seemed to me, to une which the wood-hauler had got into. So I got down off my horse and laid my shoulder against a wheel (or at least my hand on a spoke) and so I ordered the big burmade most of the noise).

Now, Mr. Editor, don't you think this was just as honorable as a regiment of soldiers going up a hill give you the storming a fort, wherein perhaps half of them would have got killed before they reached the top and the rest would have done no good when they . rrived there. There is I believe two opposite kinds of labor going on among men forever; one kind without capital, it would seem, My respectable audience, I avail producing all things, and the other this present opportunity to address supported by capital consuming

thickly settled up, there has alminerals in it. We may look in Beyond the mere knowledge of ways been a chance for a man of vain for minerals of worth. For a facts and principals, there are other limited means to get him an home full description of the different va- advantages equally important and in the West, and while this lasts, rieties of rock the readers must re- valuable, that grow out of the pro- we can live under any sort of government. So while we have been The training and discipline of the breeding paupers, like England and school quickens and energizes the some of the older countries, under

You see most all Europe, for the ceptive and reflective powers, by last century or two, has been breedstudy in the schools, remains a per- ing paupers, like a dead dog would manent possession after the period skippers in a hot summer day. forgotten. The boy in his plays have by sending her paupers to states become crowded like the many years), won't the poor people Scriber occassion for their use and pleasure eastern states (and that will not be without notice. The reasoning fac- the rebel stopped his paper, he

On this subject, before I close,

"When priests are more in word than matter, When brewers mar their malt with water, When nobles are their tailors tutors, No heretics burned but wend When every case in law is right, No 'squire in debt, nor no poor knight, When slanders do not live in tongues, or cut-purses come not to throngs, And bawds and whores do churches build; Then shall the realm of Albion Come to great confusion

Then comes the time, who lives to see it, That going shall be used with teet."

RODERICK ROLKER.

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